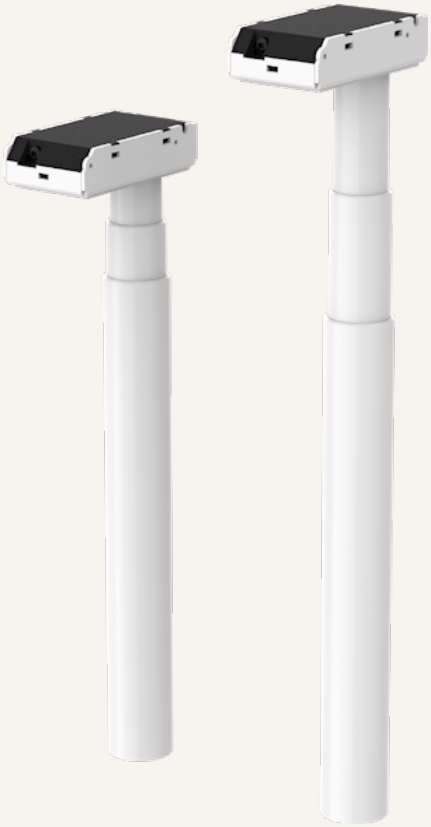
TFL9

series



Product Segments

- **Ergo Motion**

Introducing TiMOTION's TFL9, a high-speed lifting column designed for diverse ergonomic height-adjustable applications. Experience swift and seamless position adjustments with unparalleled efficiency, elevating your workspace with a smooth and effortless user experience.

Combine multiple TFL9 lifting columns with the TC control box series to create customized solutions that precisely meet your project's specific requirements. The TFL9 offers synchronized movement that is fast and quiet, delivering a superior lifting experience.

- FastRise technology for quick height adjustments
- Three-stage telescopic structure with a round profile

Features

- Load and speed per column[1][2]

Code	Load (N)	Self Locking Force (N)	Current (A) with 24V DC		Speed (mm/s) with 24V DC	
			No Load	With Load	No Load	With Load
F	600	600	5.0	9.0	75.0	55.0

- Retracted length: 590mm
560mm (M)
520mm (S)
- Stroke: 650mm
660mm (M/S)
- Outer profile: Ø70mm round
- Stages: 3-stage
- Output signals: Hall sensor*2
- Voltage: 24V DC
- Color[3]: RAL9005 RAL9006 RAL9016 RAL9022
- Product weight: 8.2Kg / column
- With motor house
- The TFL9 can only be used in pairs; single column usage is not recommended

Note

1 The self-locking force, current, and speed performance are defined with use of TiMOTION control boxes.

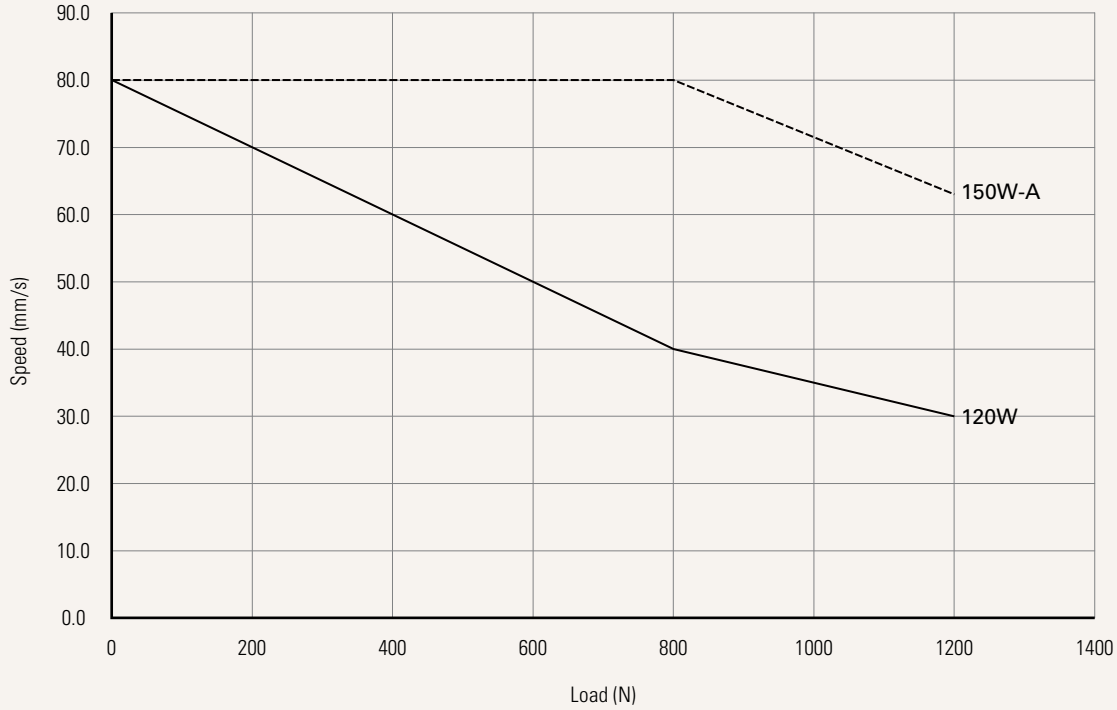
2 The parameters are based on average test values; final specifications are subject to the approval drawings.

3 For more color options, please consult your sales representative.

Performance Data with Control Box

The following is the performance data of two columns driven by an Ergo Motion control box TC15F. The load is evenly distributed on the work surface.[4]

- TFL9, two columns driven by TC15F



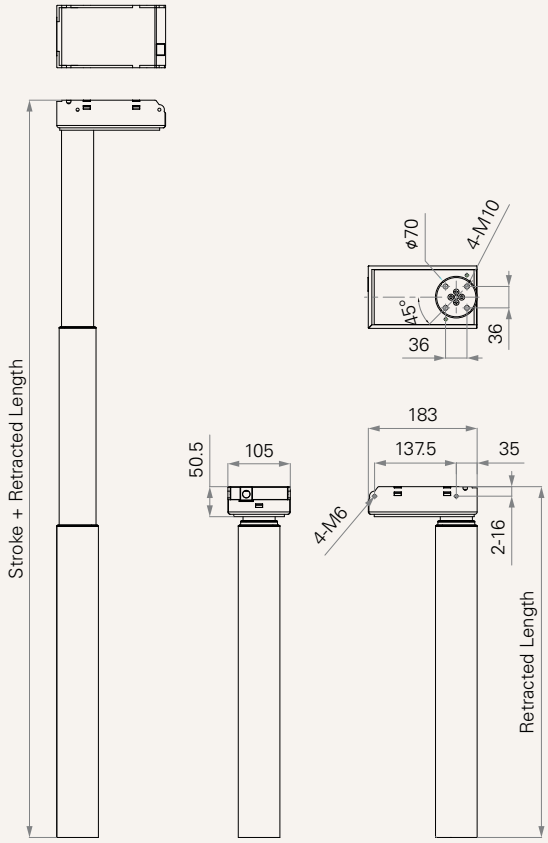
TC15F Spec	Load (N)	Constant Speed (mm/s) with TC15F
120W	1200	40
150W-A	1200	80

Note

4 The corresponding control box software is required.

Drawing

Standard Dimensions
(mm)



Stroke & Retracted Length			
	Options	**Stroke (mm)**	**Retracted Length (mm)**
Standard Outer Tube	Standard	650	590
	M	660	560
	S	660	520
Extended Outer Tube	Standard	650	610
	M	660	580
	S	660	540

TFL9 Ordering Key

TiMOTION

TFL9

Version: 20260730-E

Appearance of Motor House See page 6	C = TiMOTION standard			
Voltage	2 = 24V DC			
Load and Speed	See page 2			
Stroke & Retracted Length (mm)	See page 4			
Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
Wiper Color	1 = Black	2 = White	3 = Grey	4 = Matte black
Bracket See page 6	0 = Without 1 = Left, triangle bracket	2 = Right, triangle bracket 3 = Front, triangle bracket	4 = Back, triangle bracket	
Bottom Plate Type See page 6	1 = M10, 36*36, TiMOTION standard		2 = M6, 36*36, TiMOTION standard	
Bottom Plate Height	1 = Standard		2 = Extended outer tube for shoe	
Output Signals	2 = Hall sensor * 2			
Connector	1 = DIN 6P, 90° plug E = Molex 8P, 180° plug, standard		F = Molex 8P, 90°plug, without anti-clip, for TC22/TC23	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

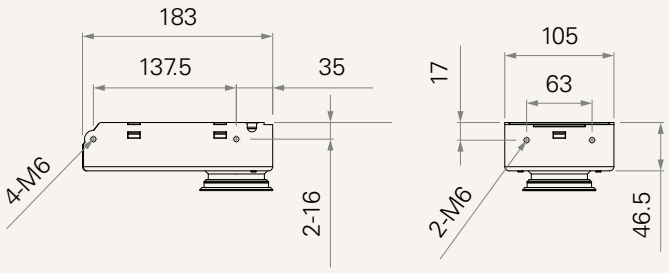
Note

1 The TL is designed especially for push applications, not suitable for pull applications.

TFL9 Ordering Key Appendix

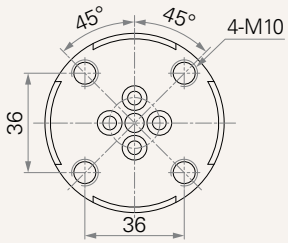
Appearance of Motor House (mm)

C = TiMOTION standard

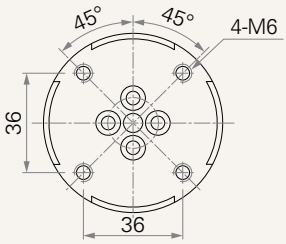


Bottom Plate Type (mm)

1 = M10, 36*36, TiMOTION standard



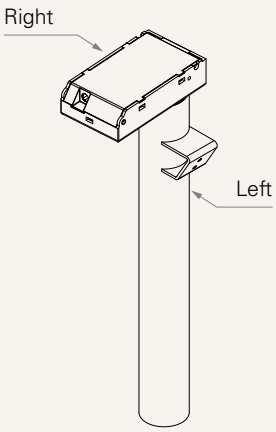
2 = M6, 36*36, TiMOTION standard



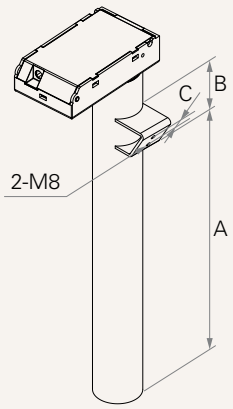
Bracket

- Triangle bracket

Direction



Dimension

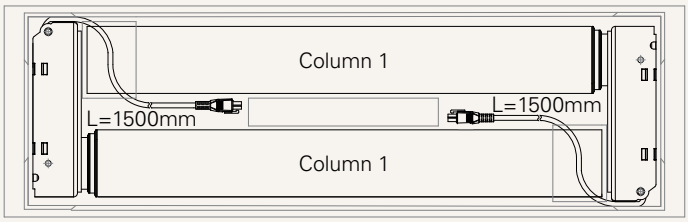


Standard Outer Tube	A (mm)	B (mm)	C (mm)
Standard	437	50	20
M	411	50	20
S	371	50	20

Extended Outer Tube	A (mm)	B (mm)	C (mm)
Standard	457	50	20
M	431	50	20
S	391	50	20

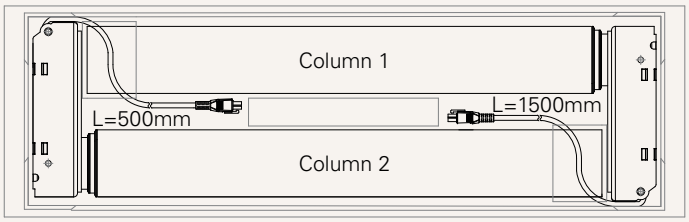
Package

Package of one TL part number



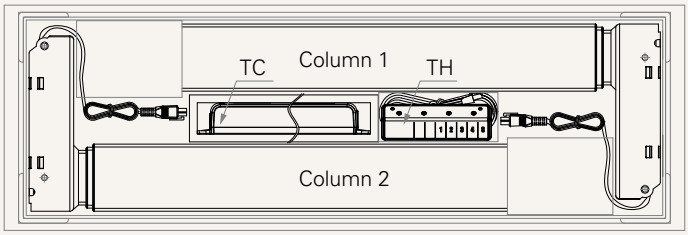
Column: 2pcs TL/box (Same PN& cable length)
Electronic control system: Without
Weight with package: 16KG

Package of two TL part numbers in pairs



Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: Without
Weight with package: 16KG

Package of MP part number set-TL in pairs + electronic control system



Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: TC + TH
Weight with package: 17KG

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.
TiMOTION products are subject to change without prior notice.